

From: Selim <Selim@sawayaeng.com>
Sent time: 07/01/2019 08:52:32 AM
To: Ron Dragoo; allan rigg <allanrigg@yahoo.com>
Cc: Scott Campbell <scampbell@trumpnational.com>
Subject: RE: 2019-06-25 # Tract 50666 # Request for Storm Drain Amendment
Attachments: 2019-06-25 SD Request2City.pdf

Hello Ron and Allan,

I am just following up on the below. Can we set a meeting for this coming Wednesday the 3rd of July to discuss? The developer is very eager to start

Kindly let me know

Thank you
Selim Sawaya P.E. / P.L.S.
(626) 715-2320

Thank you
Selim Sawaya P.E. / P.L.S.
(626) 715-2320

From: Selim [mailto:Selim@sawayaeng.com]
Sent: Tuesday, June 25, 2019 11:51 AM
To: 'Ron Dragoo'; 'allan rigg'
Cc: 'Scott Campbell'
Subject: 2019-06-25 # Tract 50666 # Request for Storm Drain Amendment

Hi Ron, Allan,

Thank you for sending over the City comments.

I have revised our request letter to identify the design flow according to the proposed alternative. They are shown at the top of page 2.

My original letter did not show any design flow. The flow that are listed are the flows within Forestall Canyon (Pre and Post development). The proposed ultimate flow of Forestall Canyon would remain the same as it has been for the past 15 years of 633 cfs at Point "D" and 754 cfs at Point "B". I have also clarified that on page 2 of the letter.

Let me know if you would need anything else.

Thank you
Selim Sawaya P.E. / P.L.S.
(626) 715-2320

From: Ron Dragoo [mailto:RonD@rpvca.gov]
Sent: Tuesday, June 25, 2019 9:30 AM
To: Scott Campbell; allan rigg; selim Sawava
Subject: RE: 2019-06-18 # Tract 50666 # Request for Storm Drain Amendment

Hi Scott,

We have a few comments, but with these changes we are good with the revised letter. Selim has requested a meeting this week to discuss this. I am out of the office, but if there is something that needs to be discussed with Allan or me directly, perhaps Allan can be available this Friday.

Ron Dragoo, PE
City Engineer

From: Scott Campbell [mailto:scampbell@trumpnational.com]

Sent: Friday, June 21, 2019 7:24 PM

To: Ron Dragoo <RonD@rpvca.gov>; allan rigg <allanrigg@yahoo.com>; selim Sawaya <selim@sawayaeng.com>

Subject: Fwd: 2019-06-18 # Tract 50666 # Request for Storm Drain Amendment

Hi Gentlemen

What Selim email over to you guys is that what you where looking for from us. If so can you tell us what is the next step.

Thank you Scott Campbell

Project Manager

Trump National LA

415-760-4040

scampbell@trumpnational.com

Sent from my iPhone

Begin forwarded message:

From: "Selim" <Selim@sawayaeng.com>

To: "'Ron Dragoo'" <RonD@rpvca.gov>

Cc: "SoK@rpvca.gov" <SoK@rpvca.gov>, "Jill Martin" <jmartin@trumpnational.com>, "'Ara Mihranian'" <AraM@rpvca.gov>, "Scott Campbell" <scampbell@trumpnational.com>

Subject: 2019-06-18 # Tract 50666 # Request for Storm Drain Amendment

Mr. Dragoo,

On behalf of the Trump Organization, I am hereby submitting a request to amend the approval of the ultimate storm drain system of MTD 1472-5, tract 50666 as shown on the attached letter.

Kindly, let me know if you would need further information

Thank you

Selim Sawaya P.E. / P.L.S.

(626) 715-2320



SAWAYA ENGINEERING CONSULTANTS, INC.

CIVIL ENGINEERING • LAND PLANNING • SURVEYING

June 25, 2019

City of Rancho Palos Verdes.

30940 Hawthorne Blvd.

Rancho Palos Verdes, CA 90275

Department of Public Works

Re: **Request to use Forestall Canyon to convey off-site storm water in lieu of the proposed 60 inch Reinforced Concrete Pipe.**

Mr. Dragoo;

On behalf of VH Property, Sawaya Engineering Consultants has prepared this letter to propose to continue using Forestall Canyon as a storm drain delivery system in lieu of constructing the conceptually approved storm drain pipe as shown on the 2005 Amended Grading Plan of Phase II, as described below.

Historically / Predevelopment:

Three different storm drain systems were constructed to outlet to Forestall Canyon to ultimately convey the off-site flow to the ocean. Historically, the flow in Forestall Canyon ranged from 613.0 cfs at Point "D" to 1050.0 cfs. At Point "B" (see Exhibit A).

Approved Ultimate Drainage Concept:

The Drainage Concept of the development as proposed in 2000 and shown on Exhibit "B" was set to reduce / minimize the risk of flooding of the proposed lots from Forestall Canyon. As a result, the flow within Forestall canyon was reduced from 1050.0 cfs at Point "B" to approximately 254.0 cfs. The balance of approximately 800 cfs was to be conveyed back to Forestall Canyon downstream of the proposed lots at Point "B" via a storm drain piping system.

Existing / As-built Storm Drain System

The storm drain systems per PD 86 and PD 269 were existent prior to the development. Line "L" and Line "M" were constructed in 2004 and have been in operation since. The only remaining storm drain lines to be constructed for the development to satisfy the approved Drainage Concept are Line "N" and line "P" (See Exhibit "B").

In the interim and until the ultimate drainage system is completed, a temporary pipe was constructed in 2005 to convey the flow of PD 86 and PD 269 back to Forestall Canyon (See Exhibit "C"). Since 2005, (approximately 15 years), the flow within Forestall Canyon between Point "D" and Point "B" has ranged from 633.0 cfs to 754.0 cfs, which is below the historical / predevelopment flow of 1050.0 cfs.

Proposed Drainage Alternative

In 2005, an amended loting configuration for the site was approved and graded to provide for a driving range in lieu of 16 residential lots, thus reducing the number of residential lots west of Forestall Canyon from 29 to only 13 lots. The amended site as approved and graded has reduced and likely eliminated the risk of residential flooding from Forestall Canyon rendering the proposed Line "N" (60" RCP) redundant and unnecessary. Therefore, VH Property is requesting the City of Rancho Palos Verdes' approval to eliminate the portion of Line "N" that is adjacent to Forestall Canyon from Point "B" to Point "D".

"The true cost of engineering is reflected in the cost of construction."

26950 Ironstone Drive, Yorba Linda, CA 92887, Phone (626) 715-2320

Request to use Forestall Canyon to convey off-site storm water
in lieu of the proposed 60 inch Reinforced Concrete Pipe.
Tract 50666 – MTD 1472-5
City of Rancho Palos Verdes - State of California.

02/13/2012

2 of 2

In the event that the above request is granted, Line "N" would have a design flow of approximately 500 cfs, would start at Point "F", and would terminate at Point "B" with an energy dissipater type outlet structure (See Exhibit "D" for size and alignment).

Line "Q" would have a design flow of approximately 46 cfs and would terminate at point "A" with an energy dissipater type outlet located (see Exhibit "D" for size and alignment).

Kindly, consider the points below when evaluating the proposed alternative:

1. The proposed ultimate flow of Forestall Canyon would remain the same as it has been for the past 15 years of 633 cfs at Point "D" and 754 cfs at Point "B".
2. The proposed ultimate flow of Forestall Canyon would be approximately 72% of historical (Predevelopment at Point "B" is 1050 cfs – Post development at Point "B" is 754 cfs).
3. The proposed ultimate flow of Forestall Canyon would be equal to the current/interim flow.
4. Forestall Canyon has performed well under the current/interim condition for the past 15 years.
5. No Residential lots would be at risk from flooding and high velocity scouring action.
6. Forestall Canyon has the capacity to carry the anticipated flow with a velocity less than 15 fps. (See Exhibit "E" for water surface elevation and velocity).
7. Since PD 86 and PD 269 are debris carrying line, Forestall Canyon is more suitable to carry the flow rather than a storm drain pipe.

Additional considerations:

8. The construction of Line "N" is very intrusive to the area due to its size (60") and depth (20').
9. Line "N" if constructed would be a debris carrying line with a pipe diameter of 60 inch at a minimum slope of 5%, carrying a flow of 549 cfs, resulting a velocity of at least 38 fps. This would require a large outlet structure / riprap pad configuration which would be intrusive to the ecosystem of Forestall Canyon.
10. The Operator of the Golf Course is bound by a maintenance agreement with the City of Rancho Palos Verdes, which covers the extent of maintenance liability over Forestall Canyon and all outlet structures.

Your consideration of the above matter is greatly appreciated.

Sincerely,

Sawaya Engineering Consultants INC.
Selim R Sawaya PE, PLS

EXIST. 42" R.C.P.
PER P.D. 86
 $\Sigma Q=270.00$

EXIST. 42" R.C.P.
PER P.D. 269
 $\Sigma Q=233.0$

EXIST. 24" R.C.P. PER
L.A.C.R.D. NO. 40891
 $\Sigma Q=17.0$

OVERLAND FLOW
 $\Sigma Q=106.0$

POINT "D"
 $\Sigma Q=613.0$

EXIST. 60" R.C.P. PER
L.A.C.R.D. NO. 40891
 $\Sigma Q=315.0$

POINT "E"
 $\Sigma Q=357.0$

POINT "C"
 $\Sigma Q=977.0$

EXIST. 48" R.C.P. PER
L.A.C.R.D. NO. 53274
 $\Sigma Q=357.0$

POINT "B"
 $\Sigma Q=1050.0$

FORESTALL CANYON

300' 150' 0 300'

SCALE: 1"=300'

EXHIBIT "A"
TRACT 50666
PRE-DEVELOPMENT
EXISTING STORM DRAIN

PD 86
42" R.C.P.
 $\Sigma Q=270.00$

PD 269
42" R.C.P.
 $\Sigma Q=212.0$

48" R.C.P.
 $\Sigma Q=220.0$

$\Sigma Q=16.3$

$\Sigma Q=315.0$

LINE "L"
36" R.C.P.
 $\Sigma Q=133.5$

POINT "D"
 $\Sigma Q=133.5$

42" R.C.P.
 $\Sigma Q=102.0$

LINE "M"
54" R.C.P.
 $\Sigma Q=357.0$

POINT "E"
 $\Sigma Q=102.0$

LINE "M"
48" R.C.P.
 $\Sigma Q=256.0$

POINT "C"
 $\Sigma Q=244.0$

DRIVING RANGE

LINE "P"
36" R.C.P.
 $\Sigma Q=46.0$

LINE "N"
60" R.C.P.
 $\Sigma Q=505.0$

FORESTALL CANYON

POINT "B"
 $\Sigma Q=254.0$

LINE "M"
48" R.C.P.
 $\Sigma Q=280.0$

LINE "N"
54" R.C.P.
 $\Sigma Q=549.0$

CHANNEL
 $\Sigma Q=1159.0$

LINE "M"
54" R.C.P.
 $\Sigma Q=356.0$

POINT "A"
 $\Sigma Q=1159.0$

EXHIBIT "B"

TRACT 50666

POST-DEVELOPMENT
ULTIMATE STORM DRAIN

300' 150' 0 300'

SCALE: 1"=300'

PD 269
42" R.C.P.
 $\Sigma Q=270.00$

PD 86
42" R.C.P.
 $\Sigma Q=212.0$

48" R.C.P.
 $\Sigma Q=220.0$

$\Sigma Q=16.3$

$\Sigma Q=315.0$

LINE "L"
36" R.C.P.
 $\Sigma Q=133.5$

TEMPORARY PIPE
INTERIM CONDITION

"POINT "D"
 $\Sigma Q=633.0$

42" R.C.P.
 $\Sigma Q=102.0$

54" R.C.P.
 $\Sigma Q=357.0$

"POINT "E"
 $\Sigma Q=102.0$

LINE "M"
48" R.C.P.
 $\Sigma Q=256.0$

"POINT "C"
 $\Sigma Q=744.0$

DRIVING RANGE

FORESTALL CANYON

"POINT "B"
 $\Sigma Q=754.0$

LINE "M"
48" R.C.P.
 $\Sigma Q=280.0$

"POINT "A"
 $\Sigma Q=1159.0$

LINE "M"
54" R.C.P.
 $\Sigma Q=356.0$

EXHIBIT "C"

TRACT 50666

INTERIM CONDITION

AS-BUILT STORM DRAIN

300' 150' 0 300'

SCALE: 1"=300'

PD 269
42" R.C.P.
 $\Sigma Q=270.00$

PD 86
42" R.C.P.
 $\Sigma Q=212.0$

48" R.C.P.
 $\Sigma Q=220.0$

$\Sigma Q=16.3$

$\Sigma Q=315.0$

"POINT F"
 $\Sigma Q=500.0$

LINE "N"
60" R.C.P.
 $\Sigma Q=500.0$

LINE "L"
36" R.C.P.
 $\Sigma Q=133.5$

42" R.C.P.
 $\Sigma Q=102.0$

54" R.C.P.
 $\Sigma Q=357.0$

"POINT E"
 $\Sigma Q=102.0$

LINE "M"
48" R.C.P.
 $\Sigma Q=256.0$

"POINT C"
 $\Sigma Q=744.0$

DRIVING RANGE

FORESTALL CANYON

"POINT B"
 $\Sigma Q=754.0$

LINE "Q"
36" R.C.P.
 $\Sigma Q=46.0$

LINE "M"
48" R.C.P.
 $\Sigma Q=280.0$

"POINT A"
 $\Sigma Q=1159.0$

LINE "M"
54" R.C.P.
 $\Sigma Q=356.0$

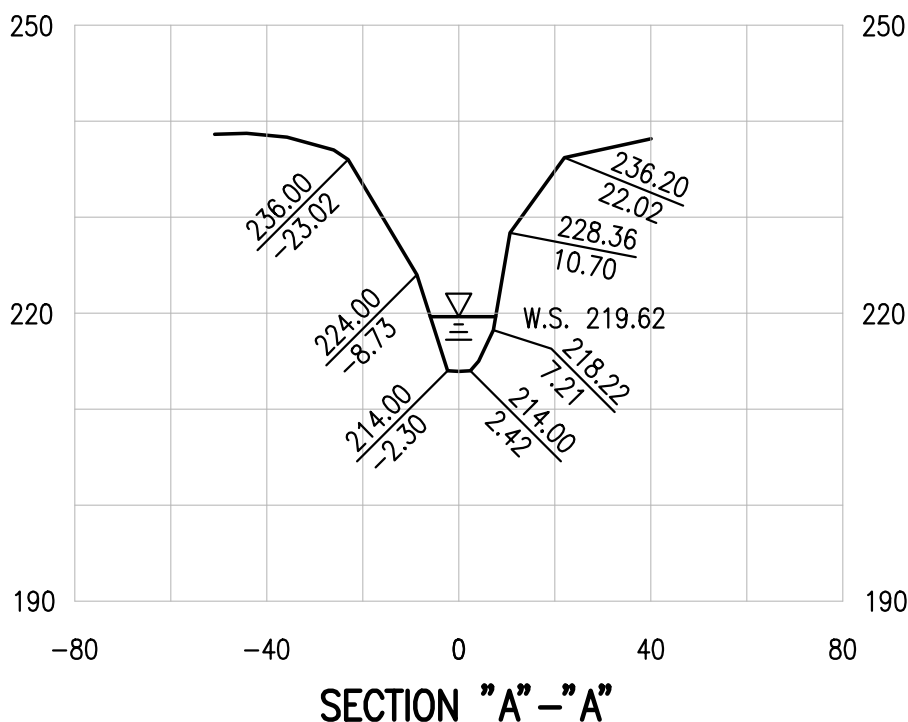
EXHIBIT "D"

TRACT 50666

PROPOSED ALTERNATIVE
ULTIMATE STORM DRAIN

300' 150' 0 300'

SCALE: 1"=300'



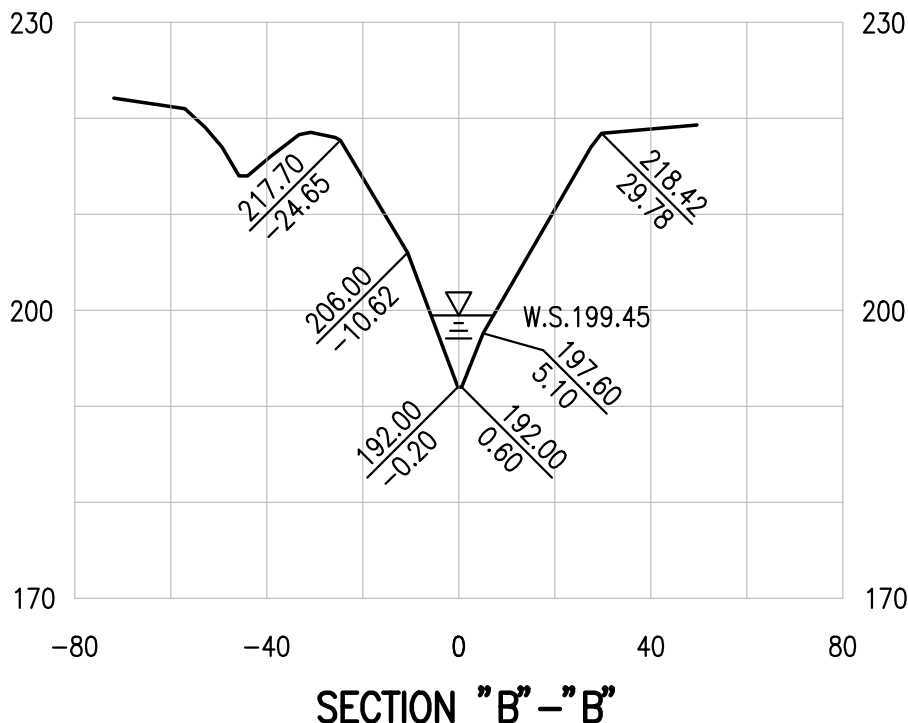
INPUT DATA

Channel Slope 0.043500 ft/ft
Elevation range: 214.00 ft to 236.20 ft.
Discharge 735.00 cfs

Start Station	End Station	Roughness
-23.02	22.02	0.045

RESULTS

Wtd. Mannings Coefficient 0.045
Water Surface Elevation 219.62 ft
Flow Area 53.81 ft²
Wetted Perimeter 19.26 ft
Top Width 13.60 ft
Height 5.62 ft
Critical Depth 220.21 ft
Critical Slope 0.029653 ft/ft
Velocity 13.66 ft/s
Velocity Head 2.90 ft
Specific Energy 222.52 ft
Froude Number 1.21
Flow is supercritical.



INPUT DATA

Channel Slope 0.064000 ft/ft
Elevation range: 192.00 ft to 218.42 ft.
Discharge 754.00 cfs

Start Station	End Station	Roughness
-24.65	29.78	0.045

RESULTS

Mannings Coefficient 0.045
Water Surface Elevation 199.45 ft
Flow Area 49.53 ft²
Wetted Perimeter 20.13 ft
Top Width 13.03 ft
Height 7.45 ft
Critical Depth 200.50 ft
Critical Slope 0.032121 ft/ft
Velocity 15.22 ft/s
Velocity Head 3.60 ft
Specific Energy 203.05 ft
Froude Number 1.38
Flow is supercritical.

SCALE
HORIZ: 1" = 40'
VERT: 1" = 20'

EXHIBIT "E"
TRACT 50666
PROPOSED ALTERNATIVE
HYDRAULIC CALCULATION